

SYSTEM AND METHOD FOR REDUCING DIFFERENTIAL MODE
DISPERSION EFFECTS IN MULTIMODE OPTICAL FIBER
TRANSMISSIONS

ABSTRACT OF THE DISCLOSURE

A system and method for compensating for unwanted modes in multimode fiber transmissions includes a detector that receives an optical signal transmitted through a multimode optical fiber and converts the transmitted optical signal to a detector signal, an adaptive equalizer that generates an adaptive equalizer signal that, when combined with the detector signal, compensates for unwanted modes in the detector signal, and an adder that combines the adaptive equalizer signal with the detector signal.